

## Other: contracted Piper Cherokee or King Air 03/01/17 - 03/30/17

**Aircraft:**

Other: contracted Piper Cherokee or King Air

**Flight Number:**

?17M007-1

**Payload Configuration:**

Puerto Rico/Florida - 2017

**Nav Data Collected:**

Yes

**Total Flight Time:**

74.7 hours

**Comments:**

Transit from Dynamic Aviation (Bridgewater, VA; no NASA personnel onboard) to Puerto Rico was ~9 hours. Transit from Puerto Rico to Ft. Lauderdale, FL (no NASA personnel onboard), was ~5.5 hours., Transit from Jacksonville, FL, to Dynamic Aviation (Bridgewater, VA; no NASA personnel onboard) was ~3.5 hours. These transit hours (18 h) have been added to the Science Hours Flown (74.7 h, see above) to obtain the Total Hours Flown (74.7+18=92.7).

**Submitted by:**

Bruce Cook on 03/07/17

**Flight Segments:**

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/01/17 16:21 Z	<b>Finish:</b>	03/01/17 18:59 Z
<b>Flight Time:</b>	2.6 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	First flight of campaign on Dynamic Aviation A90 King Air (N87Q). Prepared instruments in morning following transit of platform from FL to PR at high altitude (to avoid strong headwind from east). In afternoon, flew US Forest Service Forest Inventory and Analysis (USFS FIA) transects west of San Juan (clearer skies) in support of NGEE-Tropics project. Aircraft and instruments all functioning properly.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/02/17 14:32 Z	<b>Finish:</b>	03/02/17 19:20 Z
<b>Flight Time:</b>	4.8 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Continued data acquisition of US Forest Service Forest Inventory and Analysis (USFS FIA) and Columbia University transects west of San Juan (clearer skies) in support of NGEE-Tropics project. Aircraft and instruments all functioning properly.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/03/17 13:12 Z	<b>Finish:</b>	03/03/17 21:32 Z
<b>Flight Time:</b>	6.2 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data for FLARE campaign over San Juan Botanical Gardens, Arboretum Parque Doña Inés and USFS International Institute for Tropical Forestry (IITF) inventory plots. Acquisitions were collected in the morning, solar noon and afternoon. Aircraft and instruments all functioning properly.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/04/17 12:54 Z	<b>Finish:</b>	03/04/17 16:34 Z
<b>Flight Time:</b>	4.5 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data for NGEE-Tropics within El Yunque National Park (NSF LTER, USFS and other research plots) and mangrove sites around airport while traffic was light. Aircraft and instruments all functioning properly. NOTE: Tomorrow (Saturday, 4 March 2017) is a mandatory down day for the pilots (one down day for every 7 days working). UPDATE: No flights planned on Monday or Tuesday (6-7 March 2017) due to high winds and rain across the island.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/08/17 14:32 Z	<b>Finish:</b>	03/08/17 18:52 Z
<b>Flight Time:</b>	4.4 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data for NGEE-Tropics in SW corner of Puerto Rico, because area was cloud free and aerostat near the NEON tower and other research plots was down for maintenance. Aircraft and instruments all functioning properly.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/09/17 13:08 Z	<b>Finish:</b>	03/09/17 13:59 Z
<b>Flight Time:</b>	0.8 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Tried to acquire data near airport before rainstorms arrived. Forecast calls for rain through tomorrow (Friday 10 March 2017).		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/10/17 13:57 Z	<b>Finish:</b>	03/10/17 15:50 Z
<b>Flight Time:</b>	1.9 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data for NGEE-Tropics sites near airport. Lidar data okay, but sky conditions not favorable for imaging spectroscopy. Aircraft and instruments all functioning properly.		

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/11/17 12:57 Z	<b>Finish:</b>	03/11/17 16:56 Z
<b>Flight Time:</b>	4 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		

<b>Comments:</b>	Acquired FLARE data at 9:30 am (completely clear) and 12:30 (solar noon, but mostly cloudy). NGEE-Tropics data was collected over central mountains, which was mostly clear with some cumulus clouds, between FLARE acquisitions. Aircraft and instruments all functioning properly.		
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<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/12/17 12:33 Z	<b>Finish:</b>	03/12/17 16:21 Z
<b>Flight Time:</b>	3.9 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired NGEE-Tropics data near El Yunque, in coastal areas (E and SE) where with more open sky, and in central mountains to the west. Aircraft and instruments all functioning properly.		

  

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/13/17 12:48 Z	<b>Finish:</b>	03/13/17 16:55 Z
<b>Flight Time:</b>	4.1 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired FLARE data over Botanical Gardens w/o tarps on transit from and to airport. NGEE-Tropics data in mountains and coastal areas in SE, where there was more open sky. Aircraft and instruments all functioning properly.		

  

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/14/17 12:31 Z	<b>Finish:</b>	03/14/17 16:07 Z
<b>Flight Time:</b>	3.6 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired remaining NGEE-Tropics data in west and south, with the exception of one FIA transect (#32) in high mountains with low cloud ceiling. Waiting until 3:30 pm LT (solar noon + 3 hours) for El Yunque and FLARE study site (UPR Botanical Garden and Arboretum Parque Doña Inés), but skies were persistently cloudy. Aircraft and instruments all functioning properly. NOTE: Pilot's down day tomorrow (15 March), no flights planned.		

  

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
<b>Start:</b>	03/15/17 13:12 Z	<b>Finish:</b>	03/15/17 17:55 Z
<b>Flight Time:</b>	4.7 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		

**Comments:**

Numerous FLARE collections over calibration tarps, but skies were quite cloudy. Acquired most of the remaining NGEE-Tropics data around El Yunque NF and high-altitude mountain transect to the south (near Cayey) that was previously in the clouds. Also finished lidar mapping of UPR Botanical Garden and Arboretum Parque Doña Inés. Aircraft and instruments all functioning properly. NOTE: Obtained waiver from Dynamic Aviation for pilot down day, because morning skies were clear and ground crew for tarps/ASD are leaving tomorrow. Hard ground day tomorrow (16 March), last day opportunity for data collection on Friday (17 March). Plane w/G-LiHT will transit to Ft Lauderdale, FL, where they will be met on Tuesday (21 March) by Bruce Cook and Larry Corp to begin the FL campaign.

<b>From:</b>	Isla Grande Airport, San Juan, PR (SIG)	<b>To:</b>	Isla Grande Airport, San Juan, PR (SIG)
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<b>Start:</b>	03/17/17 12:57 Z	<b>Finish:</b>	03/17/17 16:03 Z
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<b>Flight Time:</b>	3.1 hours
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<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
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<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program
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<b>Purpose of Flight:</b>	Science
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**Comments:**

Completed NGEE-Tropics data acquisition over El Yunque NF and the cloud forest, and FLARE transects @ 1000 and 3000' AGL over UPR Botanical Garden and Arboretum Parque Doña Inés. Aircraft and instruments all functioning properly. NOTE: This was the last day of the Puerto Rico campaign. NASA instrument operators Cook and Corp will fly commercial aircraft back to DC tomorrow (Saturday 18 March) and meet aircraft on Tuesday (21 March) in Ft Lauderdale to begin FL campaign.

<b>From:</b>	Ft. Lauderdale Executive Airport (FXE)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
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<b>Start:</b>	03/22/17 15:00 Z	<b>Finish:</b>	03/22/17 21:24 Z
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<b>Flight Time:</b>	6.4 hours
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<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
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<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program
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<b>Purpose of Flight:</b>	Science
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**Comments:**

Aircraft and G-LiHT transited from San Juan to Ft. Lauderdale on Sunday, 19 March 2017, where NASA instrument operators (PI/Cook and Corp) met the crew. Coastal FL campaign official began on Wednesday, 22 March 2017, with transects in the FL Everglades National Park. Aircraft and instruments all functioning properly. NOTE: Thursday, 23 March 2017, is likely a down day due to weather (rain and clouds forecast for much of southern FL)

<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
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<b>Start:</b>	03/25/17 12:53 Z	<b>Finish:</b>	03/25/17 14:23 Z
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<b>Flight Time:</b>	1.5 hours
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<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
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<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program
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<b>Purpose of Flight:</b>	Science
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<b>Comments:</b>	Acquired data over field plots on FL Keys, where skies were clearest. Aircraft and instruments all functioning properly.
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<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
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<b>Start:</b>	03/26/17 12:46 Z	<b>Finish:</b>	03/26/17 14:14 Z
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<b>Flight Time:</b>	1.4 hours
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<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
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<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program
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<b>Purpose of Flight:</b>	Science
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<b>Comments:</b>	Attempted to collect NIP flight lines in along Gulf Coast of FL Everglades, but encountered persistent, heavy cloud cover. Aircraft and instruments all functioning properly. NOTE: Next two days look better for clear skies and NIP/CCS acquisitions along Gulf Coast		
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<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
<b>Start:</b>	03/27/17 14:30 Z	<b>Finish:</b>	03/27/17 20:06 Z
<b>Flight Time:</b>	5.6 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Skies cleared in morning and we acquired data around Port Charlotte and Ding Darling. Aircraft and instruments all functioning properly.		

  

<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
<b>Start:</b>	03/28/17 12:47 Z	<b>Finish:</b>	03/28/17 17:06 Z
<b>Flight Time:</b>	4.4 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data over Ten Thousand Islands and Harney River. Aircraft and instruments all functioning properly.		

  

<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Florida Keys Marathon Airport (MTH)
<b>Start:</b>	03/29/17 12:41 Z	<b>Finish:</b>	03/29/17 16:20 Z
<b>Flight Time:</b>	3.7 hours		
<b>Log Number:</b>	<a href="#">17M007</a>	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Acquired data over Shark River. Aircraft and instruments all functioning properly.		

  

<b>From:</b>	Florida Keys Marathon Airport (MTH)	<b>To:</b>	Jacksonville International Airport (JAX)
<b>Start:</b>	03/30/17 13:20 Z	<b>Finish:</b>	03/30/17 16:28 Z
<b>Flight Time:</b>	3.1 hours		
<b>Log Number:</b>	<a href="#">17M007</a> - Completed as of this flight.	<b>PI:</b>	Bruce Cook
<b>Funding Source:</b>	Ming-Ying Wei - NASA - SMD - ESD New Investigator Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Collected targets of opportunity (LILA and Indian River Lagoon) on transit back to Dynamic Aviation. Cook and Corp disembarked in Jacksonville, FL, to take commercial airline back to DC. Aircraft and instruments all functioning properly.		

  

<b>Flight Hour Summary:</b>	
	<b>17M007</b>
<b>Flight Hours Approved in SOFRS</b>	100
<b>Total Used</b>	92.7
<b>Total Remaining</b>	7.3
<b>17M007 Flight Reports</b>	

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">03/01/17</a>	?17M007-1	Science	2.6	2.6	97.4
<a href="#">03/02/17</a>	?17M007-1	Science	4.8	7.4	92.6
<a href="#">03/03/17</a>	?17M007-1	Science	6.2	13.6	86.4
<a href="#">03/04/17</a>	?17M007-1	Science	4.5	18.1	81.9
<a href="#">03/08/17</a>	?17M007-1	Science	4.4	22.5	77.5
<a href="#">03/09/17</a>	?17M007-1	Science	0.8	23.3	76.7
<a href="#">03/10/17</a>	?17M007-1	Science	1.9	25.2	74.8
<a href="#">03/11/17</a>	?17M007-1	Science	4	29.2	70.8
<a href="#">03/12/17</a>	?17M007-1	Science	3.9	33.1	66.9
<a href="#">03/13/17</a>	?17M007-1	Science	4.1	37.2	62.8
<a href="#">03/14/17</a>	?17M007-1	Science	3.6	40.8	59.2
<a href="#">03/15/17</a>	?17M007-1	Science	4.7	45.5	54.5
<a href="#">03/17/17</a>	?17M007-1	Science	3.1	48.6	51.4
<a href="#">03/22/17</a>	?17M007-1	Science	6.4	55	45
<a href="#">03/25/17</a>	?17M007-1	Science	1.5	56.5	43.5
<a href="#">03/26/17</a>	?17M007-1	Science	1.4	57.9	42.1
<a href="#">03/27/17</a>	?17M007-1	Science	5.6	63.5	36.5
<a href="#">03/28/17</a>	?17M007-1	Science	4.4	67.9	32.1
<a href="#">03/29/17</a>	?17M007-1	Science	3.7	71.6	28.4
<a href="#">03/30/17</a>	?17M007-1	Science	3.1	74.7	25.3

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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2017

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NASA Official: Bruce A.

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